IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Oh-Hun Kwon, et al.

Title:

ESD DISSIPATIVE CERAMICS

Application No.: Divisional Application

Filed:

HEREWITH

of U.S. Application No. 09/988,894, filed 19 November 2001.

Atty. Docket No.: 1035-PM4034-DIV

MS PATENT APPLICATION COMMISSIONER FOR PATENTS PO Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the undersigned brings the patents, publications, applications or other information identified in the attached:

\boxtimes	Form(s) PTO/SB/08A and/or PTO/SB/08E
П	Other: n/a

to the Examiner's attention in the above-identified application. Citation of such information shall not be construed as:

- 1. an admission that the information necessarily is, or corresponds to, prior art with respect to the instant invention;
- a representation that a search has been made, other than as described below; or 2.
- 3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

For each item of information listed that is not in the English language, the undersigned has provided a concise explanation of the relevance, such as through (i) an English language abstract, (ii) an English language equivalent application, (iii) reference to discussion in the application, or (iv) if cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action that indicates the degree of relevance found by the foreign office.

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STATEMENT UNDER 37 C.F.R. § 1.704(d)

If the May 29, 200	above-identified application is an original application filed on or after 0:				
	each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement.				
	FEES DUE				
This	Information Disclosure Statement is being filed:				
	within three months of the filing date of a national application or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.				
	before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.				
	during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement.				
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Should any PTO fees be necessary for entry of this Information Disclosure Statement, the undersigned hereby authorizes the Commissioner to charge Deposit Account 50-2469.

Respectfully submitted,

Jeffrey S. Abel, Reg. No. 36,079 Attorney for Applicant(s) TOLER, LARSON & ABEL, L.L.P.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3 (use as many sheets as necessary)

Complete if Known
Applicati n Number NEW APPLICATION
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First Named Inventor Oh-Hun Kwon, et al.
Group Art Unit
Examiner Name
Attorney Docket Number 1035-PM4034-DIV

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.1	U.S. Patent Document Number Kind Code 2 (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	2,528,121	Dickinson	05/20/1948	
	AB	3,502,597	Bush	03/24/1970	
	AC	4,110,260	Yamamoto, et al.	08/29/1978	
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	AW	A.J. Wallash, "Electrostatic Discharge (ESD) in Magnetic Recording: Past, Present and Future," Proc. of Understanding ESD in Magnetic Recording, IDEMA, pp. 3-20, 2000.	
	AX	A.J. Wallash, et al., "ESD Failure Mechanisms of Inductive and Magnitoresistive Recording Heads, " EOD/ESD Symposium 95, pp. 322-330 (1995).	
	AY	J. Elston, et al., "Study of High-temperature Electrical Properties of Zirconia and Lanthanum Chromite Sinsters," Proceedings of a Symposium on Magnetohydrohdynamic Electrical Power Generation, P. 1061, 389-403, 1966.	
	AZ	C. Lam, "Characterization of ESD Tweezers for Use with Magnetoresistive Recording Heads," EOS/ESD Symposium –1996, pp. 14-21 (1996)	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the twoletter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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	BA	3,410,728	Fullman, et al.	06/10/1965	
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	BM							
	BN		-					
	ВО							

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i	BW	K.J. Kim, et al., "Advancements in Inherently Dissipative Polymer (IDP) Alloys Provide New Levels of Clean, Consistent ESD Protection," EOS/ESD Symposium 2000, pp. 132-38, 2000.	
	BX	R.V. Wilhelm, D.S. Howarth, 'Iron Oxide-doped Yttria-Stabilized zirconia Ceramic: Iron Solubility and Electrical Conductivity, " Am. Ceram. Soc. Bull., 58 (2) 228-32 (1979).	
	BY	N.A. Pratten, "Review, The Precise Measurement of the Density of Small Samples, : J. Mater. Sci., 16, 1737-47 (1981).	
	BZ	ASTM: D257-93, "Standard Test Methods for DC Resistance or Conductance of Insulating Materials:, pp. 108-124.	

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Examiner Initials *	Cite No.1	Title of Publication	Date of Publication of Cited Document MM-DD-YYYY
	AAA	FED. Test Method Std. No. 101, "Electrostatic Properties of Materials, " Rev. B, Method 4046, Jan. 1969; Rev. C, Method 4046.1, Oct. 1982, Change Notice 1.	
	AAB	N. Jonassen, "Static-Electric Characterization of Semi-insulating Materials," EOS/ESD Symposium EOS-6, pp. 45-49, 1984.	
	AAC	G. Baumgartner, "Electrostatic Decay Measurement, Theory and Applications," EOS/ESD Symposium 95, pp. 262-72, 1995.	
_	AAD	C.F.Lam, et al., "Decay-Time Characterization of ESD Materials for Use with Magnetoresistive Recording Heads," EOS/ESD Symposium 97, pp. 373-81, 1997.	
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	AAH		
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	AAL		
	AAM		
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